

Claims

1. A connector arrangement between a flat flex cable (1) and a component (5) of an electrical circuit, wherein the flat flex cable (1) has conductor regions stripped of insulation on one side of its end being connected, comprising a housing (2) in which the end of the flat flex cable is clamped and in which an elastic element (3) subjects the stripped regions to pressure, the component (5) comprising an uptake (4) for the housing (2), in which the housing (2) can be locked and in which contact tracks (6) are arranged, against which the stripped regions of the flat flex cable (1) are pressed when the housing (2) is in the final position thereof in the uptake (4), characterized in that the component (5) is an electrical circuit board and the uptake (4) forms a bracket, which is attached to the circuit board (5) above an arrangement of conductive tracks (15) and the housing (2) is guided laterally and perpendicularly with respect to the circuit board.
2. The connector arrangement according to claim 1, further characterized in that the housing (2) has a bottom part (2a) with at least one opening (7) in the floor, through which the regions of the flat flex cable (1) stripped of insulation can be pressed, and a top part (2b), attached to the bottom part, which has the spring elements (3) opposite the opening (7), with which the flat flex cable (1) is subjected to pressure.

3. The connector arrangement according to claim 1 or 2, further characterized in that the flat flex cable (1) has perforations (8)¹ on its end that is introduced into the housing (2), in which a strain relief (9) with retaining pins (10), which is hinged on the bottom housing part, engages in a lockable manner.
4. The connector arrangement according to one of the preceding claims, further characterized in that the elastic element (3) consists of one or more steel leaf springs (3a, 3b).
5. The connector arrangement according to one of the preceding claims, further characterized in that the top housing part (2b) is hinged on its front side to the bottom housing part (2a) and can be locked in place via catch hooks (11) on the bottom housing part (2a).
6. The connector arrangement according to claim 1, further characterized in that the housing (2) can be locked in place via catch arms (12) in catch openings (13) on the side walls of the bracket (4).
7. The connector arrangement according to one of the preceding claims, further characterized in that, on the top inner side of the uptake (4), there is constructed at least one ramp (17), which presses, through at least one opening in the top side of the housing (2), all or individual steel springs downward on the flat flex cable (1) stripped of insulation.

¹ [Translator's Note] "(δ)" in the original.